

Enrichment 5-2

Fractions With Like Denominators

Decision Making

You want to make a meat loaf. The only measuring cups in the house measure $\frac{1}{8}$ cup and $\frac{1}{4}$ cup. There are only $\frac{1}{8}$, $\frac{1}{4}$, and $\frac{1}{2}$ teaspoon measuring spoons. Since you don't want to continually wash and dry the measuring cups, you want to use certain ones for dry ingredients and the rest for wet ingredients.

1. Identify the dry and wet ingredients in the recipe by placing a *D* beside the dry ingredients and a *W* beside the wet ingredients.
2. Which measuring cups and spoons will you use only for dry ingredients? Which for wet ingredients?

3. Show how you will measure each quantity using the measuring cups you decided to use in Exercise 2.

4. Rewrite the recipe so that it makes two meat loaves.

Meat Loaf

$\frac{1}{2}$ lb ground beef

$\frac{1}{2}$ c ketchup

2 eggs

$\frac{1}{4}$ c tomato juice

$\frac{3}{4}$ c bran cereal

$1\frac{1}{2}$ tsp onion flakes

$\frac{1}{2}$ tsp Worcestershire sauce

$\frac{1}{2}$ tsp salt

$\frac{1}{8}$ tsp pepper

Topping

2 tsp mustard

$\frac{1}{4}$ c ketchup

2 tsp brown sugar

Mix ingredients in column 1. Place in 9×5 pan. Combine topping ingredients. Spread over meat loaf. Bake at 400° F for 45 minutes.

Reteaching 5-2**Fractions With Like Denominators**

Add: $\frac{1}{6} + \frac{3}{6}$

- ① Combine numerators over the denominator.

$$\frac{1}{6} + \frac{3}{6} = \frac{1+3}{6}$$

- ② Add numerators.

$$= \frac{4}{6}$$

- ③ Simplify, if possible.

$$= \frac{2}{3}$$

$$\frac{1}{6} + \frac{3}{6} = \frac{2}{3}$$

Subtract: $\frac{7}{10} - \frac{2}{10}$

- ① Combine numerators over the denominator.

$$\frac{7}{10} - \frac{2}{10} = \frac{7-2}{10}$$

- ② Subtract numerators.

$$= \frac{5}{10}$$

- ③ Simplify, if possible.

$$= \frac{1}{2}$$

$$\frac{7}{10} - \frac{2}{10} = \frac{1}{2}$$

Find each sum.

1. $\frac{1}{5} + \frac{3}{5}$ _____

2. $\frac{4}{6} + \frac{1}{6}$ _____

3. $\frac{3}{12} + \frac{3}{12}$ _____

4. $\frac{6}{10} + \frac{5}{10}$ _____

5. $\frac{3}{10} + \frac{2}{10}$ _____

6. $\frac{6}{12} + \frac{3}{12}$ _____

7. $\frac{5}{8} + \frac{1}{8}$ _____

8. $\frac{3}{8} + \frac{9}{8}$ _____

9. $\frac{3}{8} + \frac{6}{8}$ _____

Find each difference.

10. $\frac{6}{8} - \frac{3}{8}$ _____

11. $\frac{9}{10} - \frac{3}{10}$ _____

12. $\frac{3}{4} - \frac{1}{4}$ _____

13. $\frac{7}{12} - \frac{1}{12}$ _____

14. $\frac{8}{10} - \frac{6}{10}$ _____

15. $\frac{4}{6} - \frac{2}{6}$ _____

16. $\frac{5}{10} - \frac{1}{10}$ _____

17. $\frac{7}{12} - \frac{6}{12}$ _____

18. $\frac{9}{10} - \frac{4}{10}$ _____

Find each sum or difference.

19. $\frac{2}{7} + \frac{2}{7} - \frac{1}{7}$ _____

20. $\frac{10}{100} + \frac{20}{100} + \frac{90}{100}$ _____

21. $\frac{2}{5} - \frac{2}{5} + \frac{5}{5}$ _____

22. $\frac{10}{11} - \left(\frac{2}{11} + \frac{4}{11}\right)$ _____

23. $\frac{8}{10} - \frac{2}{10} - \frac{1}{10}$ _____

24. $\frac{62}{80} - \frac{10}{80} - \frac{5}{80}$ _____

25. For school photos, $\frac{1}{5}$ of the students choose to have a blue background, $\frac{2}{5}$ of the students choose to have a purple background, and $\frac{1}{5}$ of the students choose to have a gray background. What portion of the students choose to have another background color?
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